PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	A50
To:	PCT
ANNETTE S. PARENT TOWNSEND AND TOWNSEND AND CREW LLP TWO EMBARCADERO CENTER, 8TH FLOOR SAN FRANCISCO, CA 94111	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION
	(PCT Rule 44.1)
02-307E-143900PC	Date of mailing (day/month/year) 18 JUL 2005.
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below
2307E-1439PC International application No.	International filing date
PCT/US05/07297 Applicant	(day/month/year) 07 March 2005 (07.03.2005)
THE REGENTS OF HTE UNIVERSITY OF CALIFORNIA	
have been established and are transmitted herewith.	arch report and the written opinion of the International Searching Authority
Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the cla	
When? The time limit for filing such amendments is search report.	is normally two months from the date of transmittal of the international
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.	
For more detailed instructions, see the notes on the	accompanying sheet.
	rch report will be established and that the declaration under the International Searching Authority are transmitted herewith.
3. With regard to the protest against payment of (an) addi	litional fee(s) under Rule 40.2, the applicant is notified that:
the protest together with the decision thereon has be request to forward the texts of both the protest and t	een transmitted to the International Bureau together with the applicant's the decision thereon to the designated Offices.
	oplicant will be notified as soon as a decision is made.
Bureau. If the applicant wishes to avoid or postpone publication	te, the international application will be published by the International ion, a notice of withdrawal of the international application, or of the in Rules 90bis.1 and 90bis.3, respectively, before the completion of the
International Bureau. The International Bureau will send a cop	the written opinion of the International Searching Authority to the by of such comments to all designated Offices unless an international I. These comments would also be made available to the public but not
examination must be filed if the applicant wishes to postpone the	of some designated Offices, a demand for international preliminary ne entry into the national phase until 30 months from the priority date thin 20 months from the priority date, perform the prescribed acts for 115 05
	hs (or later) will apply even if no demand is filed within 19 months. pplicable time limits, Office by Office, see the PCT Applicant's Guide,
Name and mailing address of the ISA/ US: Mail Stop PCT, Attn: ISA/US Commissioner for Patents	D. Margaret Seaman
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. 703-308-1235
Facsimile No. (703) 305-3230 orm PCT/ISA/220 (January 2004)	(See notes on accompanying sheet)
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PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2307E-1439PC		Form PCT/ISA/220 here applicable, item 5 below.
International application No. PCT/US05/07297	International filing date (day/month/year) 07 March 2005 (07.03.2005)	(Earliest) Priority Date (day/month/year 05 March 2004 (05.03.2004)
Applicant THE REGENTS OF HTE UNIVERSITY	OF CALIFORNIA	
This international search report consists It is also accompanie	of a total ofsheets.	
The state of the s	international search was carried out on the basinless otherwise indicated under this item.	
to this Authority	I search was carried out on the basis of a translation (Rule 23.1(b)).	tion of the international application furnis
b. With regard to any nucleoti	de and/or amino acid sequence disclosed in th	ne international application, see Box No. I.
I	unsearchable (See Box No. II)	
Unity of invention is lacking. With regard to the title,	ig (See Box No. III)	
the text is approved as subm	itted by the applicant.	
the text has been established	by this Authority to read as follows:	
With regard to the abstract,		
the text is approved as submi	tted by the applicant.	
the text has been established,	according to Rule 38.2(b), by this Authority as the date of mailing of this international search r	it appears in Box No. IV. The applicant eport, submit comments to this Authority.
With regard to the drawings,	ablished with the abstract is Figure No	
as suggested by the a		
	thority, because the applicant failed to suggest	
b. none of the figures is to be put	thority, because this figure better characterizes	the invention.
THE LEAST DODG OF the Garage Lage 1	hlichad with the above	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/07297

	SSIFICATION OF SUBJECT MATTER					
IPC(7)	, , , , , , , , , , , , , , , , , , , ,					
US CL : 514/582, 590, 238.7; 564/18, 20, 34; 544/162; 546/153						
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED						
	ocumentation searched (classification system followed 14/582, 590, 238.7; 564/18, 20, 34; 544/162; 546/153	by classification symbols)				
Documentati	ion searched other than minimum documentation to the	extent that such documents are included in	the fields searched			
	ata base consulted during the international search (nam STN: Registry, Chemical Abstracts	e of data base and, where practicable, search	n terms used)			
C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a	appropriate, of the relevant passages	Relevant to claim No.			
P	US 6,897,240 A (COHEN et al) 24 May 2005 (24.05	5.2005), abstract and formula I.	1-38			
P	US 6,903,237 A (YAMAGUCHI et al) 07 June 2005	US 6,903,237 A (YAMAGUCHI et al) 07 June 2005 (07.06.2005), abstract.				
X	GREENBAUM D.C. Synthesis and Structure-Activity Relationships of Parasiticidal Thiosemicarbazone Cysteine Protease inhibitors against Plasmmodium falciparum, Trypanosoma brucei and Trypanosoma cruzi, J. Med. Chem, May 2004, Vol 47 No.12, pages 3212-3219, page 3213.					
X	DU X. Synthesis and Structure, J. Med. Chem., May page 2696.	2002, Vol 45 No. 13, pages 2695-2707,	1-38			
* S "A" documen	r documents are listed in the continuation of Box C. Special categories of cited documents: It defining the general state of the art which is not considered to be of relevance	See patent family annex. "T" later document published after the interdate and not in conflict with the application principle or theory underlying the invention.	tion but cited to understand the			
"E" earlier ap	plication or patent published on or after the international filing date	"X" document of particular relevance; the cl considered novel or cannot be considered				
"L" documen	t which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	when the document is taken alone	·			
specified)		considered to involve an inventive step combined with one or more other such	when the document is documents, such combination			
	t referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	art			
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent fa	mily			
	ctual completion of the international search	Date of mailing of the international search	report			
14 June 2005 (14.06.2005) Name and mailing address of the ISA/US		Authorized officer	^			
Mai	il Stop PCT, Attn: ISA/US nmissioner for Patents	D. Margaret Seaman	Shiling h			
P.O	. Box 1450	J J	/			
Alexandria, Virginia 22313-1450 Telephone No. 703-308-1235 Facsimile No. (703) 305-3230						
		<u></u>				

Form PCT/ISA/210 (second sheet) (January 2004)

PATENT COOPERATION TREATY

From the

ERNATIONAL SEARCHING A	THORITY	hen	
O: NNETTE S. PARENT	ID ODEWILD	# 0/	PCT
OWNSEND AND TOWNSEND WO EMBARCADERO CENTER			
AN FRANCISCO, CA 94111	THILOOK	WF	RITTEN OPINION OF THE
		INTERNATIO	ONAL SEARCHING AUTHORITY
			(PCT Rule 43bis.1)
523078-1439	OPC	Date of mailing (day/month/year)	18 JUL 2003.
oplicant's or agent's file reference		FOR FURTHER	
07E-1439PC			See paragraph 2 below 1506
ternational application No.	International filing date	(day/month/year)	Priority date (day/month/year)
CT/US05/07297	07 March 2005 (07.03.2	1005)	
ernational Patent Classification (C) or both national classificat	ion and IPC	4 05 March 2004 (05.03.2004)
C(7): A61K 31/125; C07C 337/0 oplicant	A61P 331/00 and US Cl.: 514	4/582, 590, 238.7; 56 ⁴	4/18, 20, 34; 544/162; 546/153
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TE REGENTS OF HTE UNIVER	TY OF CALIFORNIA		
I. This opinion contains indicatio	relating to the following item	ns:	
Box No. I Basis	the opinion		
	чю ориноп		
Box No. II Priori			
Box No. III Non-e	blishment of opinion with re	gard to novelty, inver	ntive step and industrial applicability
		6	
DOX 140. IV Lack	unity of invention		
Box No. V Reason application	d statement under Rule 43bis. ility; citations and explanation	.1(a)(i) with regard to ns supporting such sta	novelty, inventive step or industrial atement
Box No. VI Certai	locuments cited		
Box No. VII Certai	lefects in the international app	plication	
Box No. VIII Certai	bservations on the internation	nal application	
. FURTHER ACTION	•		
international Preliminary Example	ning Authority ("IPEA") ex se the IPEA and the chosen I	cept that this does IPEA has notified the	
of Form PCT/ISA/220 or before	ere appropriate, with amendre expiration of 22 months from	ments, before the exp	EA, the applicant is invited to submit to the piration of 3 months from the date of mailing
For further options, see Form Po	/ISA/220.		
. For further details, see notes to	m PCT/ISA/220.		
no and mailtime at the Control			
	38	Authorized officer	Que Och N. 1 1
Commissioner for Patents		D. Margaret Seam	an January Shaken
P.O. Box 1450 Alexandria Virginia 22313-14			
simile No. (703) 305-3230		Telephone No. 703	3-308-1235
If this opinion is, as provided IPEA a written reply together, of Form PCT/ISA/220 or before For further options, see Form Pc. For further details, see notes to Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-14	ove, considered to be a written ere appropriate, with amendrate expiration of 22 months from PCT/ISA/220.	Authorized officer D. Margaret Seam	EA, the applicant is invited to subtraction of 3 months from the date whichever expires later.

resp to writte opinion DOCKETED BY

WRITTEN OPINION OF THE HYTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/07297

INTERNATIONAL SEARCHING	G AUTHORITY				
Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims NONE	YES			
	Claims 1-38	NO			
Inventive step (IS)	Claims NONE	YES			
	Claims 1-38	NO			
Industrial applicability (IA)	Claims 1-38	YES			
	Claims NONE	NO			
 Claims 1-38 lack novelty under PCT Article 33(2) as being anticipated by Du and Greenbaum. Both Du and Greenbaum teach compounds useful as antitrypanosomal therapy that anticipate the instant claims. Claims 1-38 lack an inventive step under PCT Article 33(3) as being obvious over Du and Greenbaum. Both Du and Greenbaum teach generic compounds that are useful as antitrypanosomal therapy that render the intant claims obvious. 					
be made or used in industry.	33(4), and thus have industri	al applicability because the subject matter claimed can			

NOTESTOFORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase, the claims may also be amenced (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Scarching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions. Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

13:

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.